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Chapter 9   Levels and Symbology

Overview

Symbology includes which level, color, linestyle, and weight are associated with each element to be drawn. Following the symbology outlined in this chapter is essential for several reasons, but perhaps the most important reason is the standardization of the final output. Following the standard symbology will ensure that each element, line work, text, etc., will plot the same from drawing to drawing.

Within MicroStation J, a design file contains 63 levels in which data may be displayed. The color, weight, and line style of the graphic elements are set independently. Therefore, a large number of combinations are available for the designer to use. The tables below dictate the level, color, line-style, and weight of each type of graphic element.

While some manual drafting is necessary and expected, most elements should be placed with the GEOPAK D&C manager, and the CFLHD **.ddb** file. This is the best way to insure that elements are placed with the proper symbology, for final output and for use at later stages for GEOPAK quantities.

Standard Levels

Level #	Feature (Level Name)	Color	LineStyle	Line Code	Weight
1	North arrow, grid ticks	0			
2	Control points	5			
3	Existing planimetrics (Fence, road, pipes, etc.)	0			
4	Existing planimetric labels	0			
5	Existing vegetation	2			
6	Existing utilities				
7	Existing utilities labels				
8	Existing hydraulic features (Rivers, streams, lakes)	1			
9	Existing hydraulic feature labels	1			
10					
11	Monument labels	0			1
12	Property markers	7			
13	Analytical points, photo centers	3			
14	Special features 1 -- User defined				
15	Special features 1 -- Labels				
16	Special features 2 -- User defined				
17	Special features 2 -- Labels				
18					
19					
20	Index contours	4			2
21	Intermediate contours	6			0
22	Spot elevations	2			
23	GEOPAK ground shots	3			
24	Discontinuity lines	0			1
25	Plan sheet borders, tables, Location title blocks				
26	Obscured areas	4			
27	Dimensioning				
28					
29					
30	Horizontal alignment/controls	3			
31	Notes, work descriptions, labels, curve data				
32	Alternate alignments				
33	Proposed edge of pavement, curb lines, etc.				
34	Proposed hydraulics (pipes, drop inlets, etc.)				
35	Proposed guardrail				
36	Proposed fence				
37	Proposed walkways				
38	Proposed walls, gabions, etc.				
39	Landscaping, plantings, etc.				
40	Construction limits				

Level #	Feature (Level Name)	Color	LineStyle	Line Code	Weight
41	Soil borings/boulders, scarp, slides	0/3			
42	Signing (word messages)	0			
43	Striping, delineators				
44	Proposed utilities -- User defined				
45	Proposed utilities -- User defined				
46	Proposed utilities -- User defined				
47	Proposed Right-of-Way				
48	Ownerships, addresses, and takes				
49	Metes and bounds calls				
50	Construction easements				
51					
52	Cultural resources				
53					
54	Construction traffic control				
55	Profile grade w/labels				
56	Existing ground profile				
57	Profile: Hydraulics data				
58	Profile: Quantities				
59					
60	Active points				
61	As-constructed data				
62	Monuments for sheet corners				
63	Reserved				

Table 9-1: Standard Levels